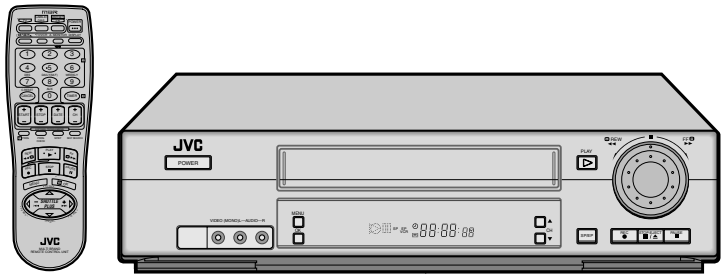
JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

HR-VP78U



Regarding service information other than these sections, refer to the HR-VP780U service manual (No. 82777). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

GENERAL

Power requirement	: AC 120 V∿, 60 Hz
Power consumption	
Power on	: 19 W
Power off	: 2.5 W
Temperature	
Operating	: 5°C to 40°C (41°F to 104°F)
Storage	: –20°C to 60°C (–4°F to140°F)
Operating position	: Horizontal only
Dimensions (W x H x D)	: 400 x 94 x 281 mm (15-3/4" x 3-3/4" x 11-1/8")
Weight	: 3.4 kg (7.5 lbs)
Format	: VHS NTSC standard
Maximum recording time	
SP	: 210 min. with ST-210 video cassette
EP	: 630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	: NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording/ Playback system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 230 lines (VHS)
Frequency range	
Normal audio	: 70 Hz to 10 000 Hz
Hi-Fi audio	: 20 Hz to 20 000 Hz
Input/Output	: RCA connectors (IN x 2, OUT x 1)

TUNER

Tuning system	: Frequency-synthesized tuner
Channel coverage	
VHF	: Channels 2–13
UHF	: Channels 14–69
CATV	: 113 Channels
RF output	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

TIMER

Clock reference	: Quartz
Program capacity	: 1-year programmable timer/ 8 programs
Memory backup time	: Approx. 3 min.

ACCESSORIES

Provided accessories	: RF cable (F-type), Infrared remote control unit, "AA" battery x 2

Specifications shown are for SP mode unless specified otherwise.
E. & O.E. Design and specifications subject to change without notice.

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4. CHARTS AND DIAGRAMS (4-1 to 4-3)
4.1 MAIN, R.PAUSE, A/C HEAD, LOADING MOTOR, SHUTTLE AND C.BOX CTL CIRCUIT BOARDS 4-2

The following table indicate main different points between models HR-VP780U and HR-VP78U.

ITEM \ MODEL	HR-VP780U	HR-VP78U
B.E.S.T.PICTURE	AUTO PICTURE	A.V.CALIBRATION
CHILD LOCK	NOT USED	USE

The following tables indicate different parts number between models HR-VP780U and HR-VP78U.

PACKING AND ACCESSORY ASSEMBLY <M1>

⚠ REF. NO.	ITEM \ MODEL	HR-VP780U	HR-VP78U
301	PACKING CASE	LP30658-001A	LP30658-035A
⚠ 310	INST.BOOK(EN)	LPT0313-001B	LPT0507-001A
318	Q.S.SHEET	LPT0313-002A	LPT0507-002A

CABINET AND CHASSIS ASSEMBLY <M2>

⚠ REF. NO.	ITEM \ MODEL	HR-VP780U	HR-VP78U
⚠ 501	FRONT PANEL ASSY	LP10289-001A	LP10289-055A
501C	DISPLAY WINDOW	LP20869-001A	LP20869-074A
⚠ 502	TOP COVER	*LP10013-021C	LP10013-020D
⚠ 511	BOTTOM CHASSIS	*LP10108-010A	LP10108-010B

MAIN BOARD ASSEMBLY <03>

⚠ REF. NO.	ITEM \ MODEL	HR-VP780U	HR-VP78U
PW1	MAIN BOARD ASSY	*LPA10088-01D1	LPA10088-01K1
IC1	IC	*JCP8020-NVA	JCP8020-NVD-2
Q26	TRANSISTOR	*DTC144WU	—
D3009	DIODE	*DA204U	—
D3013	DIODE	*DA204U	—
D5001	BRIDGE DIODE	*S1WB(A)60F4102	S1WB/A/60F4102
R92	MG RESISTOR	*NRSA02J-392X	NRSA02J-152X
R93	MG RESISTOR	*NRSA02J-222X	NRSA02J-102X
R104	MG RESISTOR	*NRSA02J-562X	NRSA02J-682X
R106	MG RESISTOR	*NRSA02J-225X	—
R107	RESISTOR	*QRE141J-225Y	—
R109	RESISTOR	*QRE141J-225Y	—
R3226	MG RESISTOR	*NRSA02J-103X	NRSA02J-472X
R3227	MG RESISTOR	*NRSA02J-103X	NRSA02J-472X
R4004	MG RESISTOR	*NRSA02J-0R0X	—
R6514	MG RESISTOR	*NRSA02J-0R0X	—
R6515	MG RESISTOR	*NRSA02J-0R0X	—
R7014	MG RESISTOR	*NRSA02J-0R0X	—
C1	CAPACITOR	*NCB21AK-105X	NCF21CZ-105X
C2	CAPACITOR	*NCB21AK-105X	NCF21CZ-105X
C3	CAPACITOR	*NCB21AK-105X	NCF21CZ-105X
C4	CAPACITOR	*NCB21AK-105X	NCF21CZ-105X
C8	CAPACITOR	*NCB21EK-473X	NCB21EK-104X
C13	CAPACITOR	*NCB21HK-103X	—
C15	CAPACITOR	*NCB21EK-104X	NCB21HK-103X
C56	CAPACITOR	*NCB21CK-474X	—
C64	CAPACITOR	*NDC21HJ-9R0X	NDC21HJ-150X
C109	CAPACITOR	*NCB21HK-223X	NCB21CK-224X
C3002	CAPACITOR	*NCB21EK-104X	—
C3024	E CAPACITOR	*QEKJ0JM-476	—
C3025	CAPACITOR	*NCB21HK-103X	—
C3029	CAPACITOR	*NCB21HK-103X	—
C3030	E CAPACITOR	*QEKJ0JM-227	—
C3051	CAPACITOR	*NCF11HZ-103X	—
C3054	CAPACITOR	* —	NCB21HK-103X
C3055	E CAPACITOR	*QEKJ0JM-337	—
C6513	E CAPACITOR	*QEE81CJ-335	QETN1HM-335
C6514	E CAPACITOR	*QEE81CJ-106	QETN1HM-106
C7007	E CAPACITOR	*QEKJ0JM-107	QEKJ0JM-476
C7008	CAPACITOR	*NCF21CZ-105X	NCB21HK-223X
C7011	E CAPACITOR	*QEKJ0JM-227	QEKJ0JM-476
L2	COIL/BUS WIRE	*QQL29BJ-101Z	QUY153-050Y
L13	COIL	*QQL231J-101Y	QQL231J-680Y
K2251	FERRITE BEAD	*NQR0007-001X	—
K2252	FERRITE BEAD/MG RESISTOR	*NQR0007-001X	NRSA02J-0R0X
K2253	FERRITE BEAD	*NQR0007-001X	—
⚠ T5001	SW TRANSFORMER	*QQS0031-002	QQS0030-002
⚠ SG5001	SURGE ABSORBER	*QAF0046-242Z	—
⚠ VA5002	VARISTOR	*QAF0023-431Z	—
⚠ CP4001	CIRCUIT PROTECTOR/BUS WIRE	*ICP-N25	QUY153-050Y

Notes : • Mark — is not used. • Mark * reference model was also charged.

SECTION 4
CHARTS AND DIAGRAMS

COMPONENT PARTS LOCATION GUIDE ＜MAIN＞

REF.NO.	LOCATION		
CAPACITOR			
C1	B	C	15N
C2	B	C	15N
C3	B	C	14N
C4	B	C	14N
C5	A	D	15N
C6	B	C	14N
C7	B	C	4H
C8	B	C	17N
C9	B	C	9M
C10	B	C	12N
C11	B	C	12N
C12	B	C	10N
C13	B	C	10N
C14	B	C	11M
C15	B	C	12N
C16	B	C	12M
C17	A	D	9M
C18	A	D	8M
C19	A	D	9M
C20	A	D	9M
C21	B	C	11M
C22	A	D	9M
C23	B	C	12M
C24	B	C	12M
C25	B	C	11L
C26	B	C	11L
C27	B	C	11L
C28	A	D	11L
C29	B	C	11L
C30	A	D	10L
C31	A	D	11L
C32	B	C	12L
C33	A	D	11L
C34	B	C	10K
C35	B	C	11K
C36	A	D	12L
C37	A	D	12K
C38	A	D	12K
C39	B	C	13K
C40	A	D	12K
C41	B	C	12K
C42	B	C	11K
C44	B	C	15N
C51	A	D	16G
C52	A	D	9M
C53	B	C	10K
C54	B	C	10K
C55	B	C	10L
C56	B	C	10K
C57	B	C	10N
C58	B	C	11N
C59	B	C	9N
C60	A	D	9N
C61	B	C	11O
C62	B	C	11N
C64	B	C	10M
C65	B	C	13N
C69	B	C	15N
C70	B	C	15N
C80	B	C	12M
C81	B	C	11M
C87	B	C	15N
C88	B	C	15N
C89	B	C	14N
C90	B	C	14N
C93	B	C	11N
C96	B	C	8E
C98	A	D	15H
C106	B	C	11N
C108	B	C	10L
C109	B	C	12N
C110	B	C	12N
C112	B	C	10L
C113	B	C	10L
C114	B	C	10L
C131	B	C	9K
C132	B	C	12J
C201	A	D	11G
C202	B	C	11G
C203	A	D	11G
C205	B	C	11G
C207	B	C	11G
C208	B	C	10G
C209	B	C	10G
C210	B	C	10G
C211	B	C	10G
C212	B	C	13G
C213	B	C	12G
C401	B	C	15O
C402	B	C	15O
C403	B	C	15O
C404	B	C	16O
C405	B	C	16O
C406	B	C	16O
C407	B	C	16O
C408	B	C	17O
C409	A	D	17O
C901	A	D	20O
C902	B	C	20N
C903	A	D	20O
C904	B	C	20N
C2001	A	D	14K
C2002	A	D	14L
C2003	A	D	15M
C2004	B	C	15M
C2005	A	D	14O
C2006	B	C	13N
C2007	A	D	13O
C2008	A	D	13O
C2009	B	C	12O
C2010	B	C	13N
C2011	A	D	13O
C2012	A	D	13N
C2051	A	D	9O
C2052	A	D	9O
C2053	B	C	9P
C2054	B	C	8O
C2055	A	D	10P
C2201	B	C	11J
C2202	B	C	13K
C2203	A	D	13K
C2204	B	C	10J
C2205	A	D	13K
C2206	A	D	13K
C2207	A	D	13J
C2208	A	D	14K
C2209	A	D	14K
C2210	A	D	15K
C2211	A	D	15K
C2212	A	D	15K
C2215	A	D	15K
C2216	A	D	15L
C2217	A	D	15L
C2218	A	D	15L
C2219	A	D	16L
C2220	A	D	16M
C2221	B	C	16M
C2222	A	D	16M
C2223	A	D	16M
C2224	B	C	16M
C2225	A	D	16M
C2226	A	D	15M
C2227	B	C	15M
C2251	A	D	15N
C2252	B	C	15M
C2253	B	C	16N
C2254	B	C	15N
C3001	B	C	7N
C3002	B	C	6M
C3003	A	D	5M
C3007	B	C	4I
C3008	B	C	20I
C3013	A	D	14E
C3015	B	C	13E
C3016	B	C	13F
C3017	B	C	13F
C3018	A	D	13G
C3019	B	C	12F
C3020	B	C	12F
C3022	B	C	13E
C3023	B	C	16B
C3024	A	D	4D
C3025	B	C	4D
C3026	A	D	2D
C3028	A	D	2D
C3029	B	C	6B
C3030	A	D	6B
C3035	B	C	12F
C3036	A	D	13G
C3041	B	C	9G
C3042	B	C	9G
C3043	A	D	13E
C3045	A	D	13E
C3048	B	C	13E
C3049	B	C	11I
C3050	B	C	10E
C3051	B	C	17J
C3052	B	C	17E
C3053	A	D	14E
C3054	B	C	17K
C3055	A	D	16B
C4001	B	C	7M
C4002	A	D	8G
C4004	A	D	8F
C4006	B	C	8F
C4007	B	C	10E
C4008	A	D	7F
C4009	B	C	9F
C4010	A	D	8F
C4011	B	C	7D
C4012	B	C	8F
C4014	B	C	8G
C4015	B	C	8F
C4016	A	D	6B
C4017	B	C	6B
C4019	B	C	10F
C4022	B	C	8F
C5001	A	D	2P
C5002	A	D	2N
C5003	A	D	4P
C5004	A	D	1I
C5006	A	D	2M
C5101	A	D	2M
C5102	A	D	2K
C5103	B	C	3L
C5104	A	D	3L
C5105	A	D	2L
C5106	A	D	4L
C5107	A	D	3L
C5110	A	D	2K
C5201	A	D	1H
C5202	A	D	3H
C5203	A	D	2G
C5204	A	D	3G
C5205	A	D	2H
C5206	A	D	4G
C5207	A	D	2F
C5208	A	D	1F
C5209	A	D	3G
C5301	A	D	2E
C5302	A	D	3E
C5303	A	D	3E
C5304	A	D	4E
C5305	B	C	1C
C5306	A	D	22H
C5307	A	D	22G
C5310	A	D	3E
C5312	A	D	2E
C5321	B	C	18A
C6005	A	D	21L
C6006	B	C	22M
C6007	A	D	21M
C6008	B	C	22M
C6012	A	D	21O
C6013	B	C	22O
C6014	B	C	21P
C6020	B	C	22N
C6021	B	C	22N
C6022	B	C	22N
C6023	B	C	22M
C6031	A	D	21L
C6033	B	C	22J
C6052	B	C	22O
C6053	B	C	22P
C6501	A	D	19H
C6502	B	C	19H
C6503	A	D	19H
C6504	A	D	18H
C6505	A	D	20H
C6506	A	D	17H
C6507	B	C	18H
C6508	A	D	17H
C6509	B	C	18H
C6510	A	D	17G
C6511	A	D	18F
C6512	A	D	19G
C6513	A	D	20G
C6514	A	D	20G
C6515	A	D	18G
C6516	A	D	19G
C6517	A	D	19G
C6518	A	D	18F
C6519	B	C	20K
C6520	B	C	21K
C6551	A	D	20J
C6552	B	C	20J
C6553	A	D	20I
C6554	B	C	20J
C6601	A	D	19H
C6602	A	D	20H
C6603	A	D	17H
C6604	A	D	20G
C6605	A	D	18G
C6650	B	C	21D
C6651	B	C	22E
C6652	B	C	22E
C6653	B	C	21D
C6654	A	D	21F
C7001	A	D	11B
C7002	A	D	9B
C7007	A	D	13B
C7008	B	C	13A
C7009	B	C	13B
C7010	B	C	13B
C7011	A	D	7B
C7012	B	C	9B
C7013	B	C	18B
C7014	B	C	17A
C7019	B	C	15A
C7020	B	C	15A
C7021	A	D	8A
C7201	A	D	19L
C7206	A	D	20L
CONNECTOR			
CN1	A	D	14O
CN2001	A	D	9O
CN2002	A	D	19L
CN3001	A	D	7L
CN3002	A	D	7P
CN3003	A	D	7N
CN3004	A	D	9F
CN3005	A	D	3D
CN3007	A	D	13P
CN5001	A	D	1O
CN6204	A	D	19M
CN6701	A	D	21I
CN7001	A	D	2C
CN7002	A	D	20E
CN7003	A	D	16A
CN7101	A	D	21C
CN7102	A	D	20L
DIODE			
D1	A	D	17P
D2	A	D	16P
D3	A	D	7F
D4	A	D	16G
D5	A	D	16G
D2001	A	D	17N
D2201	A	D	16L
D2202	A	D	16L
D3001	A	D	12H
D3002	A	D	5D
D3004	A	D	5C
D3005	A	D	5C
D3006	A	D	6D
D3007	B	C	16D
D3008	A	D	4E
D3009	B	C	11G
D3013	B	C	8P
D3015	B	C	17B
D4003	A	D	14H
D5001	B	C	3N
D5101	A	D	1M
D5102	A	D	1M
D5103	A	D	3L
D5104	A	D	3L
D5105	A	D	2K
D5201	A	D	1I
D5203	A	D	3I
D5204	A	D	3I
D5205	A	D	3I
D5206	A	D	2H
D5207	A	D	2I
D5208	A	D	3H
D5209	A	D	3H
D5210	A	D	4H
D5211	A	D	1H
D5301	A	D	3I
D5302	A	D	1E
D5303	A	D	1E
D5304	A	D	1F
D5305	A	D	3F
D5308	B	C	3F
D5309	A	D	4D
D5311	A	D	4D
D5312	B	C	4E
D5313	B	C	2E
D6002	A	D	21L
D6551	A	D	20J
D6650	B	C	21E
D7002	A	D	7A
D7003	A	D	8B
D7004	A	D	17A
D7005	A	D	17A
D7009	A	D	16A
D7010	A	D	16A
IC			
IC1	B	C	13M
IC3001	B	C	11E
IC3002	A	D	7N
IC3003	B	C	13E
IC3004	A	D	16C
IC5301	A	D	2E
IC6501	B	C	18G
IC6650	B	C	22E
IC7001	B	C	12B
IC7002	A	D	8A
JACK			
J1	A	D	20Q
J2	A	D	21Q
J6201	A	D	15Q
J6202	A	D	16Q
J7101	A	D	20A
COIL			
L1	A	D	16N
L2	A	D	10N
L3	A	D	9L
L4	A	D	9L
L5	A	D	12J
L11	A	D	11L
L13	A	D	10M
L15	A	D	9O
L16	A	D	10N
L17	A	D	11N
L24	A	D	11N
L27	A	D	10L
L28	A	D	12N
L201	A	D	11G
L203	A	D	12G
L204	A	D	13G
L401	A	D	16O
L402	A	D	17O
L901	A	D	20M
L2001	A	D	16N
L2251	A	D	16M
L5201	A	D	3G
L5202	A	D	1F
L5301	A	D	4D
L6001	A	D	21N
L6002	A	D	22H
L6003	A	D	21O
L6032	A	D	22K
L6050	A	D	21N
L7201	A	D	18L
TRANSISTOR			
Q1	B	C	15N
Q2	B	C	15N
Q3	B	C	14O
Q4	B	C	14N
Q5	B	C	10N
Q10	B	C	11K
Q11	B	C	11K
Q12	B	C	11K
Q13	B	C	11K
Q21	B	C	11M
Q22	B	C	9K
Q23	B	C	9L
Q25	B	C	10L
Q26	B	C	10K
Q27	B	C	10K
Q32	B	C	16H
Q35	B	C	14H
Q38	B	C	11N
Q39	B	C	10L
Q40	B	C	10L
Q41	B	C	10L
Q42	B	C	9L
Q201	B	C	10G
Q202	B	C	12G
Q401	B	C	15O
Q402	B	C	16O
Q403	B	C	17O
Q404	B	C	16N
Q405	B	C	16O
Q901	B	C	20N
Q902	B	C	20N
Q2001	B	C	11O
Q2002	B	C	11O
Q2003	B	C	10O
Q2051	B	C	9P
Q2052	B	C	7O
Q2053	B	C	7O
Q2054	B	C	7O
Q2055	B	C	7O
Q2101	B	C	13O
Q2251	B	C	17M
Q3001	A	D	4I
Q3002	A	D	19I
Q3003	B	C	6M
Q3004	B	C	6D
Q3005	B	C	17E
Q4001	B	C	7D
Q4002	B	C	5B
Q5101	A	D	2L
Q5102	A	D	2L
Q5301	A	D	3G
Q5302	B	C	3F
Q5303	A	D	22G
Q5306	A	D	3F
Q5307	B	C	2E
Q5308	B	C	3E
Q5310	B	C	4E
Q5311	B	C	3F
Q5312	A	D	1C
Q5318	B	C	2D
Q6030	B	C	22J
Q6031	B	C	22J
Q6501	B	C	20K
Q6502	B	C	20K
Q6551	A	D	20J
Q7201	A	D	19L
RESISTOR			
R1	B	C	12N
R2	B	C	12N
R3	B	C	10N
R5	B	C	9L
R6	B	C	11L
R7	B	C	11K
R8	B	C	12K
R9	B	C	12K
R12	A	D	10O
R21	B	C	16N
R22	B	C	17N
R23	B	C	10N
R24	B	C	10N
R36	B	C	12K
R37	B	C	10K
R38	B	C	10K
R39	B	C	11K
R41	B	C	10K
R42	B	C	10K
R43	B	C	11K
R44	B	C	10K
R45	B	C	11K
R46	B	C	11M
R48	B	C	9L
R49	B	C	9K
R50	B	C	9K
R66	A	D	16H
R67	A	D	8K
R69	B	C	9M
R71	B	C	16L
R75	B	C	11M
R76	B	C	8E
R77	A	D	14P
R78	B	C	12K
R79	B	C	12K
R90	B	C	11M
R92	B	C	12N
R93	B	C	12N
R95	B	C	9L
R103	B	C	11N
R104	B	C	11N
R106	B	C	12J
R107	B	C	9N
R108	B	C	10M
R109	B	C	10M
R201	B	C	11G
R202	B	C	11G
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R205	B	C	10G
R206	B	C	10G
R207	B	C	10G
R210	B	C	14F
R211	B	C	13G
R401	B	C	15O
R402	B	C	16O
R403	B	C	16O
R404	B	C	16O
R405	B	C	16O
R406	B	C	16O
R407	B	C	16N
R408	B	C	16O
R901	B	C	21P
R902	B	C	21P
R903	B	C	20M
R904	A	D	20N
R905	B	C	20M
R911	B	C	20P
R912	B	C	21B
R2001	B	C	13K
R2002	B	C	13J
R2003	B	C	14K
R2004	B	C	14K
R2005	B	C	16K
R2006	B	C	16K
R2007	B	C	16K
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R2009	B	C	16K
R2010	B	C	16K
R2011	B	C	16M
R2012	B	C	17M
R2013	B	C	13N
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R2015	B	C	13O
R2016	B	C	12O
R2017	B	C	11O
R2018	B	C	10O
R2019	B	C	10O
R2051	B	C	9O
R2052	B	C	9P
R2053	B	C	9P
R2054	B	C	9P
R2055	B	C	9O
R2056	B	C	8O
R2057	B	C	7O
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R2232	B	C	17M
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R3016	B	C	13D
R3017	B	C	13E
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R3206	B	C	9F
R3207	B	C	9F
R3208	B	C	9F
R3209	A	D	9H
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R3212	B	C	17F
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R3215	B	C	7G
R3216	B	C	5E
R3217	B	C	6D
R3219	B	C	9E
R3220	B	C	13E
R3222	B	C	13E
R3223	B	C	12F
R3224	B	C	12F
R3225	B	C	12F
R3226	B	C	17B
R3227	B	C	17B
R3232	A	D	7C
R3233	B	C	7D
R3234	B	C	6C
R3235	A	D	6P
R3236	B	C	15C
R3237	A	D	13I
R3238	A	D	13I
R3240	B	C	10C
R3241	B	C	10C
R4001	A	D	13G
R4002	B	C	7H
R4003	B	C	8F
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R4020	B	C	8G
R4021	B	C	6B
R4022	B	C	6B
R4024	B	C	7G
R4025	B	C	7H
R5001	A	D	4P
R5101	A	D	3M
R5102	A	D	3M
R5103	A	D	3M
R5104	A	D	1L
R5106	A	D	1L
R5107	A	D	2K
R5108	B	C	3L
R5109	A	D	2L
R5110	B	C	3L
R5111	B	C	3M
R5112	B	C	1K
R5113	A	D	3L
R5301	A	D	7A
R5302	B	C	4G
R5303	B	C	4G
R5304	A	D	1F
R5305	B	C	3F
R5306	B	C	3D
R5307	B	C	1I
R5308	B	C	3G
R5309	B	C	3F
R5310	B	C	2F
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R6050	A	D	21N
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R6238	B	C	15P
R6239	B	C	16P
R6501	B	C	18H
R6502	B	C	18H
R6503	B	C	18H
R6504	B	C	18G
R6505	B	C	19G
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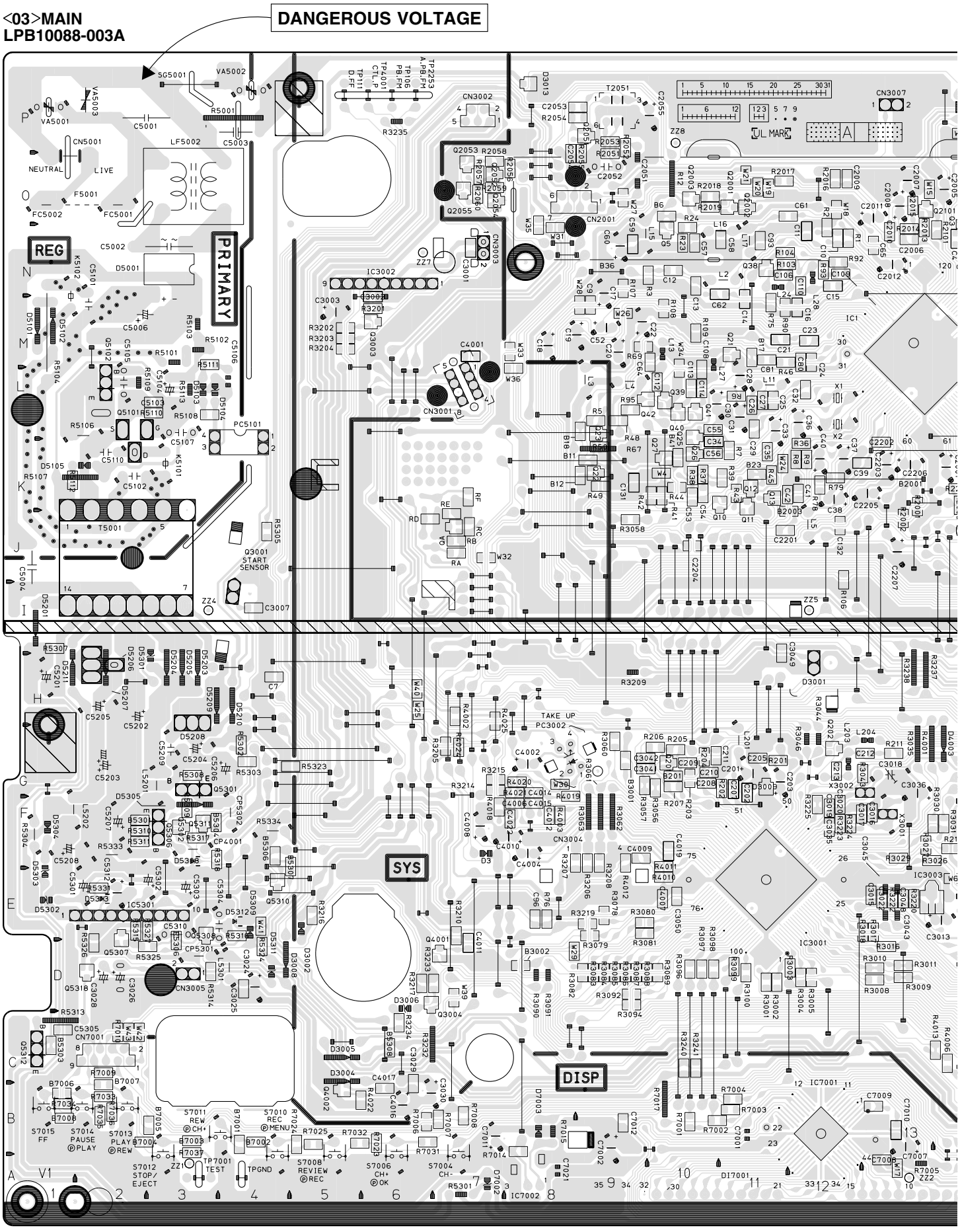
R6512	B	C	17G
R6513	B	C	17G
R6514	B	C	17G
R6515	B	C	17G
R6516	B	C	21E
R6517	B	C	21E
R6518	B	C	21E
R6519	B	C	21E
R6551	B	C	21E
R6552	B	C	22E
R6553	B	C	22E
R6554	B	C	21D
R6556	B	C	21E
R6557	B	C	21E
R6558	B	C	21E
R6559	B	C	21E
R6560	B	C	22E
R6561	B	C	21E
R7001	B	C	10B
R7002	B	C	10B
R7003	B	C	11B
R7004	B	C	11B
R7005	A	D	14A
R7006	B	C	6B
R7007	B	C	7B
R7008	B	C	7B
R7009	B	C	2C
R7010	B	C	2C
R7013	B	C	15A
R7014	B	C	8B
R7015	A	D	8B
R7017	A	D	10B
R7020	B	C	15A
R7021	B	C	17B
R7022	B	C	15B
R7023	B	C	6B
R7024	B	C	5B
R7025	B	C	5B
R7030	B	C	15B
R7031	B	C	6B
R7032	B	C	5B
R7033	B	C	2B
R7034	B	C	1B
R7035	B	C	2B
R7036	B	C	2B
R7037	B	C	3B
R7040	B	C	16A
R7041	B	C	15A
R7202	B	C	19L
R7203	B	C	19L
R7204	A	D	19L
SWITCH			
S3001	A	D	18C
S6050	A	D	18P
S7001	A	D	22B
S7002	A	D	18B
S7004	A	D	7B
S7006	A	D	6B
S7008	A	D	5B
S7010	A	D	4B
S7011	A	D	4B
S7012	A	D	3B
S7013	A	D	2B
S7014	A	D	2B
S7015	A	D	1B
S7016	A	D	17B
TESTPOINT			
TP106	A	D	6P
TP111	A	D	5P
TP2253	A	D	6P
TP4001	A	D	6P
TP7001	A	D	3A
TPGND	A	D	4A
OTHER			
CF6031	A	D	22K
CP4001	A	D	3F
CP5301	A	D	3D
CP5302	A	D	4F
DI7001	A	D	12A
F5001	A	D	1O
FC5001	A	D	2O
FC5002	A	D	1O
FW3001	A	D	21N
FW3002	A	D	20L
K2251	B	C	16N
K2252	B	C	16N
K2253	B	C	16N
K5101	A	D	3K
K5102	A	D	1M
LF5002	A	D	4O
PC0573	A	D	2G
PC3001	A	D	16F
PC3002	A	D	8G
PC5101	A	D	4L
SG5001	A	D	3P
T2051	A	D	9P
T5001	A	D	1K
TU6001	A	D	22P
VA5001	A	D	1P
VA5002	A	D	4P
VA5003	A	D	2P
VR6601	A	D	21H
X1	A	D	12L
X2	A	D	12L
X3001	A	D	13F
X3002	A	D	12G

4.1 MAIN, R.PAUSE, A/C HEAD, LOADING MOTOR, SHUTTLE AND C.BOX CTL CIRCUIT BOARDS

<03>MAIN
LPB10088-003A


DANGEROUS VOLTAGE
PRIMARY
REG
SYS
DISP
TAKE UP
SG5001
VA5002
VA5003
VA5001
R5001
C5001
C5003
CN5001
NEUTRAL
LIVE
LF5002
F5001
FC5002
FC5001
C5002
D5001
K5102
C5101
C5006
R5103
R5102
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R5109
C5104
R5113
D5103
C5103
R5108
D5104
R5106
PC5101
C5107
C5110
D5105
R5107
K5101
C5102
T5001
R5305
Q3001
START
SENSOR
ZZ4
C3007
C5004
D5201
R5307
C5211
C5201
D5206
D5207
C5205
C5202
D5203
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C5203
L5201
R5308
Q5301
D5305
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CP5302
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W42
W43
R7009
B7006
B7007
R7034
R7035
R7036
B7008
S7015
FF
S7014
PAUSE
PLAY
S7013
PLAY
REW
S7011
REW
CH+
S7010
REC
MENU
S7012
STOP/
EJECT
ZZ1
TP7001
TEST
TPGND
S7008
REVIEW
REC
S7006
CH+
OK
S7004
CH-
R7024
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R7032
R7023
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B7003
B7004
B7005
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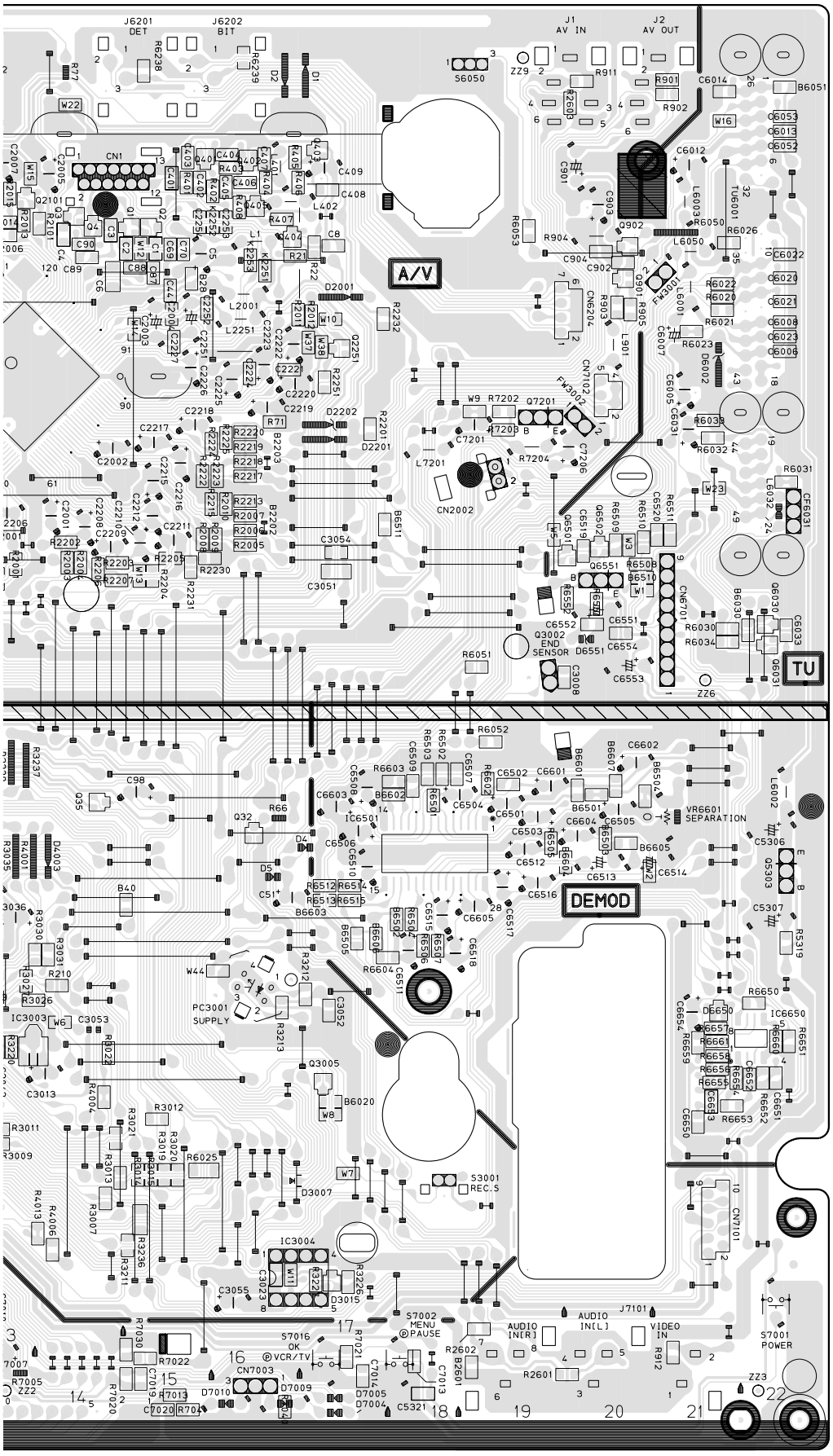
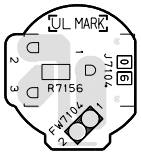
•CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD .REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).

•ATTENTION:
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE, REMPLACER LES FUSIBLES PAR UN AUTRE DE MEME TYPE ET DE MEME TENSION.



<06>R.PAUSE
LPB10088-003A



<12>A/C HEAD
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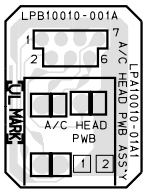
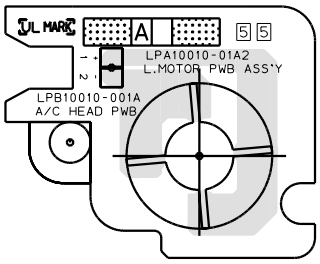
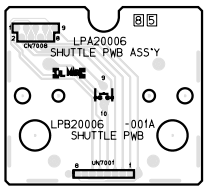


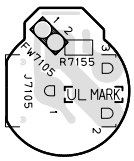
<55>LOADING MOTOR
LPB10010-001A



<85>SHUTTLE
LPB20006-001A



<92>C.BOX CTL
LPB10088-003A



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